



P2762US3 18JUN06YSC ST25.txt
SEQUENCE LISTING

<110> GTX, Inc.
et al.,, Steiner
Steiner, Et al.,

<120> ISOLATED NUCLEIC ACIDS ENCODING RAT P-HYDE
PROTEIN

<130> P-2762-US3

<160> 11

<170> PatentIn version 3.3

<210> 1
<211> 1886
<212> DNA
<213> Human

<400> 1
ggggagctgc cgcggtcgct ccgagcggcg ggccgcagag ccaccaaagt
gccagaagag 60
atggacaagc cactgatcag cctccacctg gtggacagcg atagtagcct
tgccaaggct 120
cccgatgagg cccccaagt gagcatcctg ggtagcgggg actttgcccg
ctccctggcc 180
acacgcctgg tgggctctgg cttcaaagt gtggtgggga gccgcaacc
caaacgcaca 240
gccaggctgt ttccctcagc ggccaagt actttccaag aggaggcagt
gagctccccg 300
gaggtcatct ttgtggctgt gttccgggag cactactctt cactgtgcag
tctcagtgac 360
cagctggcgg gcaagatcct ggtggatgtg agcaacccta cagagcaaga
gcaccttcag 420

Page 1

BEST AVAILABLE COPY

P2762US3 18JUN06YSC ST25.txt

```

catcgtgagt ccaatgctga gtacctggcc tccctcttcc ccacttgac
agtgggtcaag      480
gccttcaatg tcattctctgc ctggaccctg caggctggcc caagggatgg
taacgggcag      540
gtgcccattc gcggtgacca gccagaagcc aagcgtgctg tctcggagat
ggcgctcgcc      600
atgggcttca tgcccgtgga catgggatcc ctggcgtcag cctgggaggt
ggaggccatg      660
cccctgcgcc tcctcccggc ctggaagggtg cccaccctgc tggccctggg
gctcttcgtc      720
tgcttctatg cctacaactt cgtccgggac gttctgcagc cctatgtgca
ggaaagccag      780
aacaagttct tcaagctgcc cgtgtccgtg gtcaacacca cactgccgtg
cgtggcctac      840
gtgctgctgt cactcgtgta cttgcccggc gtgctggcgg ctgccctgca
gctgcggcgc      900
ggcaccaagt accagcgctt ccccgactgg ctggaccact ggctacagca
ccgcaagcag      960
atcgggctgc tcagcttctt ctgcgccgcc ctgcacgccc tctacagctt
ctgcttgccg     1020
ctgcgccgcg cccaccgcta cgacctggtc aacctggcag tcaagcaggt
cttggccaac     1080
aagagccacc tctgggtgga ggaggctctg cggatggaga tctacctctc
cctgggagtg     1140
ctggccctcg gcacgttgtc cctgctggcc gtgacctcac tgccgtccat
tgcaaactcg     1200
ctcaactgga gggagttcag cttcgttcag tcctcactgg gctttgtggc

```

P2762US3 18JUN06YSC ST25.txt

cctcgtgctg 1260

agcacactgc acacgctcac ctacggctgg acccgcgctt tcgaggagag
ccgctacaag 1320

ttctacctgc ctcccacctt cacgctcacg ctgctggtgc cctgcgtcgt
catcctggcc 1380

aaagccctgt ttctcctgcc ctgcatcagc cgcagactcg ccaggatccg
gagaggctgg 1440

gagagggaga gcaccatcaa gttcacgctg cccacagacc acgccctggc
cgagaagacg 1500

agccacgtat gaggtgcctg ccctgggctc tggaccccgg gcacacgagg
gacggtgccc 1560

tgagcccgtt aggttttctt ttcttggtgg tgcaaagtgg tataactgtg
tgcaaataag 1620

aggtttgagg tccaaattcc tgggactcaa atgtatgcag tactattcag
aatgatatac 1680

acacatatgt gtatatgtat ttacatatat tccacatata taacaggatt
tgcaattata 1740

catagctagc taaaaagttg ggtctctgag atttcaactt gtagatttaa
aaacaagtgc 1800

cgtacgttaa gagaagagca gatcatgcta ttgtgacatt tgcagagata
tacacacact 1860

ttttgtacag aaaaaaaaaa aaaaaa
1886

<210> 2
<211> 487
<212> PRT
<213> Human

P2762US3 18JUN06YSC ST25.txt

<400> 2

Met Pro Glu Glu Met Asp Lys Pro Leu Ile Ser Leu His
 Leu Val Asp
 1 5 10
 15

Ser Asp Ser Ser Leu Ala Lys Val Pro Asp Glu Ala Pro
 Lys Val Ser
 20 25 30

Ile Leu Gly Ser Gly Asp Phe Ala Arg Ser Leu Ala Thr
 Arg Leu Val
 35 40 45

Gly Ser Gly Phe Lys Val Val Val Gly Ser Arg Asn Pro
 Lys Arg Thr
 50 55 60

Ala Arg Leu Phe Pro Ser Ala Ala Gln Val Thr Phe Gln
 Glu Glu Ala
 65 70 75
 80

Val Ser Ser Pro Glu Val Ile Phe Val Ala Val Phe Arg
 Glu His Tyr
 85 90
 95

Ser Ser Leu Cys Ser Leu Ser Asp Gln Leu Ala Gly Lys
 Ile Leu Val
 100 105

P2762US3 18JUN06YSC ST25.txt

110

Asp	Val	Ser	Asn	Pro	Thr	Glu	Gln	Glu	His	Leu	Gln	His
Arg	Glu	Ser										
		115						120				125

Asn	Ala	Glu	Tyr	Leu	Ala	Ser	Leu	Phe	Pro	Thr	Cys	Thr
Val	Val	Lys										
	130						135					140

Ala	Phe	Asn	Val	Ile	Ser	Ala	Trp	Thr	Leu	Gln	Ala	Gly
Pro	Arg	Asp										
145						150					155	
	160											

Gly	Asn	Gly	Gln	Val	Pro	Ile	Cys	Gly	Asp	Gln	Pro	Glu
Ala	Lys	Arg										
				165						170		
175												

Ala	Val	Ser	Glu	Met	Ala	Leu	Ala	Met	Gly	Phe	Met	Pro
Val	Asp	Met										
			180						185			
190												

Gly	Ser	Leu	Ala	Ser	Ala	Trp	Glu	Val	Glu	Ala	Met	Pro
Leu	Arg	Leu										
		195					200					205

Leu	Pro	Ala	Trp	Lys	Val	Pro	Thr	Leu	Leu	Ala	Leu	Gly
Leu	Phe	Val										

210 P2762US3 18JUN06YSC ST25.txt 220
215

Cys Phe Tyr Ala Tyr Asn Phe Val Arg Asp Val Leu Gln
Pro Tyr Val
225 230 235
240

Gln Glu Ser Gln Asn Lys Phe Phe Lys Leu Pro Val Ser
Val Val Asn
255 245 250

Thr Thr Leu Pro Cys Val Ala Tyr Val Leu Leu Ser Leu
Val Tyr Leu
270 260 265

Pro Gly Val Leu Ala Ala Ala Leu Gln Leu Arg Arg Gly
Thr Lys Tyr
275 280 285

Gln Arg Phe Pro Asp Trp Leu Asp His Trp Leu Gln His
Arg Lys Gln
290 295 300

Ile Gly Leu Leu Ser Phe Phe Cys Ala Ala Leu His Ala
Leu Tyr Ser
305 310 315
320

Phe Cys Leu Pro Leu Arg Arg Ala His Arg Tyr Asp Leu
Page 6

P2762US3 18JUN06YSC ST25.txt

Leu Thr Leu Leu Val Pro Cys Val Val Ile Leu Ala Lys
Ala Leu Phe
435 440 445

Leu Leu Pro Cys Ile Ser Arg Arg Leu Ala Arg Ile Arg
Arg Gly Trp
450 455 460

Glu Arg Glu Ser Thr Ile Lys Phe Thr Leu Pro Thr Asp
His Ala Leu
465 470 475
480

Ala Glu Lys Thr Ser His Val
485

<210> 3
<211> 2118
<212> DNA
<213> Human

<400> 3
ggggagctgc cgcggtcgct ccgagcggcg ggccgcagag ccaccaaagt
gccagaagag 60

atggacaagc cactgatcag cctccacctg gtggacagcg atagtagcct
tgccaaggctc 120

cccgatgagg cccccaagt gagcatcctg ggtagcgggg actttgcccg
ctccctggcc 180

acacgcctgg tgggctctgg cttaaagtg gtggtgggga gccgcaaccc
caaacgcaca 240

gccaggctgt ttccctcagc ggccaagtg actttccaag aggaggcagt

P2762US3 18JUN06YSC ST25.txt

gagctccccg 300

gaggtcatct ttgtggctgt gttccgggag cactactctt cactgtgcag
tctcagtgac 360

cagctggcgg gcaagatcct ggtggatgtg agcaacccta cagagcaaga
gcaccttcag 420

catcgtgagt ccaatgctga gtacctggcc tccctcttcc ccacttgac
agtgggtcaag 480

gccttcaatg tcatctctgc ctggaccctg caggctggcc caagggatgg
taacgggcag 540

gtgcccattc gcggtgacca gccagaagcc aagcgtgctg tctcggagat
ggcgctcgcc 600

atgggcttca tgcccgtgga catgggatcc ctggcgtcag cctgggaggt
ggaggccatg 660

cccctgcgcc tcttcccggc ctggaagggtg cccaccctgc tggccctggg
gctcttcgtc 720

tgcttctatg cctacaactt cgtccgggac gttctgcagc cctatgtgca
ggaaagccag 780

aacaagttct tcaagctgcc cgtgtccgtg gtcaacacca cactgccgtg
cgtggcctac 840

gtgctgctgt cactcgtgta cttgcccggc gtgctggcgg ctgccctgca
gctgcggcgc 900

ggcaccaagt accagcgctt ccccgactgg ctggaccact ggctacagca
ccgcaagcag 960

atcgggctgc tcagcttctt ctgcgccgcc ctgcacgccc tctacagctt
ctgcttgccg 1020

ctgcgccgcg cccaccgcta cgacctggtc aacctggcag tcaagcaggt
cttgccaac 1080

P2762US3 18JUN06YSC ST25.txt

aagagccacc tctgggtgga ggaggctctgg cggatggaga tctacctctc
cctgggagtg 1140

ctggccctcg gcacgttgtc cctgctggcc gtgacctcac tgccgtccat
tgcaaactcg 1200

ctcaactgga gggagttcag cttcgttcag tgtgtggcaa cttccagtgc
aggaaacaca 1260

ggcagtggaa cccgaagacc tgaatctcag tcccaagacc cccacttacc
tgccccgcat 1320

catcagacaa gtttcctagg ccctcggagc ttctgctgct cacttggtgc
tgtgtccacc 1380

ccatatggtc atcaagagga tttgagctgg acacgttaaa tgcaggatgc
gtgcagccaa 1440

cagtggcatg ctggcttttg agtcctcact gggctttgtg gccctcgtgc
tgagcacact 1500

gcacacgctc acctacggct ggacccgcgc cttcgaggag agccgctaca
agttctacct 1560

gcctcccacc ttcacgctca cgctgctggt gccctgcgtc gtcctcctgg
ccaaagccct 1620

gtttctcctg ccctgcatca gccgcagact cgccaggatc cggagaggct
gggagaggga 1680

gagcaccatc aagttcacgc tgcccacaga ccacgccctg gccgagaaga
cgagccacgt 1740

atgaggtgcc tgccctgggc tctggacccc gggcacacga gggacggtgc
cctgagcccg 1800

ttaggttttc ttttcttggt ggtgcaaagt ggtataactg tgtgcaaata
ggaggtttga 1860

ggtccaaatt cctgggactc aaatgtatgc agtactattc agaatgatat
acacacatat 1920

P2762US3 18JUN06YSC ST25.txt

gtgtatatgt atttacatat attccacata tataacagga tttgcaatta
tacatagcta 1980

gctaaaaagt tgggtctctg agatttcaac ttgtagattt aaaaacaagt
gccgtacgtt 2040

aagagaagag cagatcatgc tattgtgaca tttgcagaga tatacacaca
ctttttgtac 2100

agaaaaaaaa aaaaaaaaa
2118

<210> 4
<211> 456
<212> PRT
<213> Human

<400> 4

Met Pro Glu Glu Met Asp Lys Pro Leu Ile Ser Leu His
Leu Val Asp
1 5 10
15

Ser Asp Ser Ser Leu Ala Lys Val Pro Asp Glu Ala Pro
Lys Val Ser
20 25 30

Ile Leu Gly Ser Gly Asp Phe Ala Arg Ser Leu Ala Thr
Arg Leu Val
35 40 45

Gly Ser Gly Phe Lys Val Val Val Gly Ser Arg Asn Pro
Lys Arg Thr

P2762US3 18JUN06YSC ST25.txt

50

55

60

Ala Arg Leu Phe Pro Ser Ala Ala Gln Val Thr Phe Gln
Glu Glu Ala
65 70 75
80

Val Ser Ser Pro Glu Val Ile Phe Val Ala Val Phe Arg
Glu His Tyr
85 90
95

Ser Ser Leu Cys Ser Leu Ser Asp Gln Leu Ala Gly Lys
Ile Leu Val
100 105
110

Asp Val Ser Asn Pro Thr Glu Gln Glu His Leu Gln His
Arg Glu Ser
115 120 125

Asn Ala Glu Tyr Leu Ala Ser Leu Phe Pro Thr Cys Thr
Val Val Lys
130 135 140

Ala Phe Asn Val Ile Ser Ala Trp Thr Leu Gln Ala Gly
Pro Arg Asp
145 150 155
160

Gly Asn Gly Gln Val Pro Ile Cys Gly Asp Gln Pro Glu
Page 12

P2762US3 18JUN06YSC ST25.txt

Ala Lys Arg	165	170
175		
Ala Val Ser Glu Met Ala Leu Ala Met Gly Phe Met Pro		
Val Asp Met	180	185
190		
Gly Ser Leu Ala Ser Ala Trp Glu Val Glu Ala Met Pro		
Leu Arg Leu	195	200 205
Leu Pro Ala Trp Lys Val Pro Thr Leu Leu Ala Leu Gly		
Leu Phe Val	210	215 220
Cys Phe Tyr Ala Tyr Asn Phe Val Arg Asp Val Leu Gln		
Pro Tyr Val	225	230 235
240		
Gln Glu Ser Gln Asn Lys Phe Phe Lys Leu Pro Val Ser		
Val Val Asn	245	250
255		
Thr Thr Leu Pro Cys Val Ala Tyr Val Leu Leu Ser Leu		
Val Tyr Leu	260	265
270		

P2762US3 18JUN06YSC ST25.txt
 Pro Gly Val Leu Ala Ala Ala Leu Gln Leu Arg Arg Gly
 Thr Lys Tyr 275 280 285

Gln Arg Phe Pro Asp Trp Leu Asp His Trp Leu Gln His
 Arg Lys Gln 290 295 300

Ile Gly Leu Leu Ser Phe Phe Cys Ala Ala Leu His Ala
 Leu Tyr Ser 305 310 315
 320

Phe Cys Leu Pro Leu Arg Arg Ala His Arg Tyr Asp Leu
 Val Asn Leu 325 330
 335

Ala Val Lys Gln Val Leu Ala Asn Lys Ser His Leu Trp
 Val Glu Glu 340 345
 350

Val Trp Arg Met Glu Ile Tyr Leu Ser Leu Gly Val Leu
 Ala Leu Gly 355 360 365

Thr Leu Ser Leu Leu Ala Val Thr Ser Leu Pro Ser Ile
 Ala Asn Ser 370 375 380

P2762US3 18JUN06YSC ST25.txt

Leu Asn Trp Arg Glu Phe Ser Phe Val Gln Cys Val Ala
 Thr Ser Ser
 385 390 395
 400

Ala Gly Asn Thr Gly Ser Gly Thr Arg Arg Pro Glu Ser
 Gln Ser Gln
 405 410
 415

Asp Pro His Leu Pro Ala Pro His His Gln Thr Ser Phe
 Leu Gly Pro
 420 425
 430

Arg Ser Phe Cys Cys Ser Leu Val Pro Val Ser Thr Pro
 Tyr Gly His
 435 440 445

Gln Glu Asp Leu Ser Trp Thr Arg
 450 455

<210> 5
 <211> 2714
 <212> DNA
 <213> Rat

<400> 5
 gaattcggca cgaggctgcc gaggcactgt gatgtccggg gagatggaca
 aaccgctcat 60

cagtcgccgc ttggtggaca gtgatggcag tctggctgag gtccccaagg
 aggctcccaa 120

P2762US3 18JUN06YSC ST25.txt

agtgggcatc	ctgggcagcg	gggattttgc	ccggtccctg	gccacacgcc
tggtgggctc	180			
tggtttcttt	gtggtggtgg	gaagccgtaa	cccaaacgc	actgccggcc
tcttcccctc	240			
cttagcccaa	gtgactttcc	aggaggaggc	cgtgagctct	ccagagggtca
tctttgtggc	300			
cgtgttccgg	gagcactact	cctcactgtg	cagtcttgct	gaccagttgg
ctggcaagat	360			
cctagtggat	gtaagcaacc	ccacggagaa	ggagcgtctt	cagcaccgcc
agtcgaacgc	420			
cgagtacctg	gcctccctct	tccctgcctg	cactgtgggtc	aaggccttca
acgtcatctc	480			
tgcattggcc	ctacaggctg	gccaaggga	tgggaacagg	caggtgctca
tctgcggtga	540			
ccagctggaa	gccaagcaca	ccgtctcaga	gatggcgcg	gccatgggtt
tcaccccact	600			
ggacatggga	tccctggcct	cagcgaggga	ggtagaggcc	atacccctgc
gcctccttcc	660			
atcctggaag	gtgcccaccc	tcctggccct	ggggctaagc	acacaaagct
atgcctacaa	720			
cttcatccgg	gacgttctac	agccgtacat	ccggaagat	gagaacaagt
tctacaagat	780			
gcccctgtct	gtggtcaaca	ccacgatacc	ctgtgtggct	tacgtgctgc
tgtccctggt	840			
ttacctgcct	ggtgtgctgg	cagctgccct	tcagctgagg	agggggacca
agtaccagcg	900			
cttcccagac	tggctggacc	attggctgca	gcaccgcaag	cagatcgggc
tactcagctt	960			

P2762US3 18JUN06YSC ST25.txt

```

ttttttcgcc atgctgcacg ctctctacag cttctgcctg ccgctgcgcc
gctcccaccg 1020

ctatgatctg gtcaacctgg ctgtgaagca ggtcctggcc aacaagagcc
gcctctgggt 1080

tgaggaagaa gtctggcgga tggagatata cctgtccctg ggtgtgctgg
ctctgggcat 1140

gctgtcactg ctggcggtta cctcgatccc ttccattgca aactcactca
actggaagga 1200

gttcagcttt gtgcagtcca cgctgggctt cgtggccctg atgctgagca
caatgcacac 1260

cctcacctac ggctggaccc gtgcttttga ggaaaaccac tacaagttct
acctgccacc 1320

cacattcacg ctacgctgc tcctgccctg tgtcatcatc ctggccaagg
gcctcttcct 1380

cctgccctgc ctacgccaca gactcaccaa gatccgcagg ggctgggaga
gggatgggtg 1440

cgtcaagttc atgctgcccg ctggccacac acagggggag aaaacaagcc
acgtgtgagg 1500

ccctggaaat ggagacaggc acagcttggt ggggccctgg gctgggttcg
ggtctctttt 1560

ctgggatggt atatgctggg gtggccgagg tctgaatttc tgggatgcag
gtgtatgccg 1620

agatactcag aatggcgtac cacacatgcg ataagtactc acatatattt
catatataat 1680

aggatttact attattctta gttaaaaaaa aatagtgggt ccttatattt
caacttatgc 1740

agggtcccta tatttcaact tgagcatttc agagcaaagt ccacacatta

```

P2762US3 18JUN06YSC ST25.txt

aacagcagat 1800

cccacccttg tggtagctgc agagacagac agaaacttct ggttatgaga
gagactgtat 1860

tttggttgat tctaccttta atccccgttc tctacgttcc cctgtttagcc
acatcttaac 1920

gttggtgcag agctgggaca agagctggct ctgggtgcagc ctcccccatc
ccagggctag 1980

gaaacaagcc tctgatgaac agagggacca ggtctggacc ctcctgctcc
cgcttccctg 2040

ggctcgagtg gggaggctca gcgggatccc ccgcaatctg tgcaggagtt
ttcacaggtc 2100

tgctctttct tccgggagcg gtctgaagcg gccccatctg atcctagctg
agccgagatt 2160

gttccccact ccctgaaagt ccagagtcac cgtggagcct gcaaattgct
ccttctgcga 2220

aggtgtgaag tcaccgtctc accagagcca ttaacgaacc tgatcttcag
aagaagcata 2280

attgtttccc ctccattaag ttggtggtga ccctctttaa accactgtgc
cttctcgcct 2340

ttcccatcac taatttgggc atctccatgg agtggactct tgtcggggca
gttcaggggg 2400

gaggggaagca ttagagattg cggagaataa ccatcgaagc ctcccttgga
tgttcccagg 2460

cgtgccttca ttaaattggt ccctaattgag aatgacaggg gacccctggt
gcctgtatgc 2520

agagaaccag ctttctgagc acccaggaaa cacagtggcc ccacgccctt
cagggggggtc 2580

P2762US3 18JUN06YSC ST25.txt
ccacgtcccc tttcccatgc ttttgcctcc ctccctcccg gttacaatca
accataaaag 2640
tctgcaaata ttgttttttg aattcttaaa gagaccacat cctttgttat
taccaaaaaa 2700
aaaaaaaaaa aaac
2714

<210> 6
<211> 487
<212> PRT
<213> Rat

<400> 6

Met	Ser	Gly	Glu	Met	Asp	Lys	Pro	Leu	Ile	Ser	Arg	Arg
Leu	Val	Asp										
1			5					10				
15												

Ser	Asp	Gly	Ser	Leu	Ala	Glu	Val	Pro	Lys	Glu	Ala	Pro
Lys	Val	Gly										
			20					25				30

Ile	Leu	Gly	Ser	Gly	Asp	Phe	Ala	Arg	Ser	Leu	Ala	Thr
Arg	Leu	Val										
		35				40						45

Gly	Ser	Gly	Phe	Phe	Val	Val	Val	Gly	Ser	Arg	Asn	Pro
Lys	Arg	Thr										
	50					55				60		

P2762US3 18JUN06YSC ST25.txt

Ala	Gly	Leu	Phe	Pro	Ser	Leu	Ala	Gln	Val	Thr	Phe	Gln
Glu	Glu	Ala										
65					70					75		
	80											
Val	Ser	Ser	Pro	Glu	Val	Ile	Phe	Val	Ala	Val	Phe	Arg
Glu	His	Tyr										
				85					90			
95												
Ser	Ser	Leu	Cys	Ser	Leu	Ala	Asp	Gln	Leu	Ala	Gly	Lys
Ile	Leu	Val										
			100					105				
110												
Asp	Val	Ser	Asn	Pro	Thr	Glu	Lys	Glu	Arg	Leu	Gln	His
Arg	Gln	Ser										
		115					120				125	
Asn	Ala	Glu	Tyr	Leu	Ala	Ser	Leu	Phe	Pro	Ala	Cys	Thr
Val	Val	Lys										
	130					135					140	
Ala	Phe	Asn	Val	Ile	Ser	Ala	Trp	Ala	Leu	Gln	Ala	Gly
Pro	Arg	Asp										
145					150					155		
	160											
Gly	Asn	Arg	Gln	Val	Leu	Ile	Cys	Gly	Asp	Gln	Leu	Glu
Ala	Lys	His										
				165					170			
175												

P2762US3 18JUN06YSC ST25.txt

Thr	Val	Ser	Glu	Met	Ala	Arg	Ala	Met	Gly	Phe	Thr	Pro
Leu	Asp	Met										
			180					185				
190												

Gly	Ser	Leu	Ala	Ser	Ala	Arg	Glu	Val	Glu	Ala	Ile	Pro
Leu	Arg	Leu										
		195					200					205

Leu	Pro	Ser	Trp	Lys	Val	Pro	Thr	Leu	Leu	Ala	Leu	Gly
Leu	Ser	Thr										
	210					215					220	

Gln	Ser	Tyr	Ala	Tyr	Asn	Phe	Ile	Arg	Asp	Val	Leu	Gln
Pro	Tyr	Ile										
225					230					235		
	240											

Arg	Lys	Asp	Glu	Asn	Lys	Phe	Tyr	Lys	Met	Pro	Leu	Ser
Val	Val	Asn										
				245					250			
255												

Thr	Thr	Ile	Pro	Cys	Val	Ala	Tyr	Val	Leu	Leu	Ser	Leu
Val	Tyr	Leu										
			260					265				
270												

Pro	Gly	Val	Leu	Ala	Ala	Ala	Leu	Gln	Leu	Arg	Arg	Gly
Thr	Lys	Tyr										
		275					280					285

P2762US3 18JUN06YSC ST25.txt

Gln	Arg	Pro	Asp	Trp	Leu	Asp	His	Trp	Leu	Gln	His	Arg
Lys	Gln	Ile										
	290					295					300	

Gly	Leu	Leu	Ser	Phe	Phe	Phe	Ala	Met	Leu	His	Ala	Leu
Tyr	Ser	Phe										
305					310					315		
	320											

Cys	Leu	Pro	Leu	Arg	Arg	Ser	His	Arg	Tyr	Asp	Leu	Val
Asn	Leu	Ala										
				325					330			
335												

Val	Lys	Gln	Val	Leu	Ala	Asn	Lys	Ser	Arg	Leu	Trp	Val
Glu	Glu	Glu										
			340						345			
350												

Val	Trp	Arg	Met	Glu	Ile	Tyr	Leu	Ser	Leu	Gly	Val	Leu
Ala	Leu	Gly										
		355					360					365

Met	Leu	Ser	Leu	Leu	Ala	Val	Thr	Ser	Ile	Pro	Ser	Ile
Ala	Asn	Ser										
	370						375				380	

Leu	Asn	Trp	Lys	Glu	Phe	Ser	Phe	Val	Gln	Ser	Thr	Leu
Gly	Phe	Val										
385					390					395		

P2762US3 18JUN06YSC ST25.txt

400

Ala Leu Met Leu Ser Thr Met His Thr Leu Thr Tyr Gly
Trp Thr Arg
415 405 410

Ala Phe Glu Glu Asn His Tyr Lys Phe Tyr Leu Pro Pro
Thr Phe Thr
430 420 425

Leu Thr Leu Leu Leu Pro Cys Val Ile Ile Leu Ala Lys
Gly Leu Phe
435 440 445

Leu Leu Pro Cys Leu Ser His Arg Leu Thr Lys Ile Arg
Arg Gly Trp
450 455 460

Glu Arg Asp Gly Ala Val Lys Phe Met Leu Pro Ala Gly
His Thr Gln
465 470 475
480

Gly Glu Lys Thr Ser His Val
485

<210> 7
<211> 33
<212> DNA
<213> Human

P2762US3 18JUN06YSC ST25.txt

<400> 7
tccctggcca cacgcctggt gggctctggc ttc
33

<210> 8
<211> 54
<212> PRT
<213> Human

<400> 8

Ala Ala Pro Cys Val Ala Tyr Val Leu Leu Ser Leu Val
Tyr Leu Pro
1 5 10
15

Gly Val Leu Ala Ala Ala Leu Gln Leu Arg Arg Gly Thr
Lys Tyr Gln
20 25 30

Arg Phe Pro Asp Trp Leu Asp His Trp Leu Gln His Arg
Lys Gln Ile
35 40 45

Gly Leu Leu Ser Phe Phe
50

<210> 9
<211> 17
<212> PRT
<213> Human

<400> 9

P2762US3 18JUN06YSC ST25.txt

Asn Phe Ile Arg Asp Val Leu Gln Pro Tyr Ile Arg Lys
 Asp Glu Asn
 1 5 10
 15

Lys

<210> 10
 <211> 3884
 <212> DNA
 <213> Artificial

<220>
 <223> vector comprising rat pHyde cDNA

<400> 10
 gcggccgcca tcatcaataa tataccttat tttggattga agccaatatg
 ataattgagg 60
 ggtggagttt gtgacgtggc gcggggcggt ggaacggggc gggtgacgta
 gtagtgtggc 120
 ggaagtgtga tgttgcaagt gtggcggaac acatgtaagc gacggatgtg
 gcaaaagtga 180
 cgtttttggt gtgcgccggt gtacacagga agtgacaatt ttcgcgcggt
 tttaggcgga 240
 tgttgtagta aatttgggcg taaccgagta agatttggcc attttcgcgg
 gaaaactgaa 300
 taagaggaag tgaaatctga ataattttgt gttactcata gcgcgtaata
 tttgtctagg 360
 gccgcgggga ctttgaccgt ttacgtggag actcgcccag ggcgcgcccc
 gatgtacggg 420

P2762US3 18JUN06YSC ST25.txt

ccagatatac gggcttcggt	gcgtatctga 480	ggggactagg	gtgtgttttag	gcgaaaagcg
tgtacgcggt gggaggggga	taggagtccc 540	ctcaggatat	agtagtttcg	cttttgcata
aatgtagtct gtagcaaca	tatgcaatac 600	tcttgtagtc	ttgcaacatg	gtaacgatga
tgccttacia ggtggtacga	ggagagaaaa 660	agcaccgtgc	atgccgattg	gtggaagtaa
tcgtgcctta ccactgaatt	ttaggaaggc 720	aacagacggg	tctgacatgg	attggacgaa
ccgcattgca ccatttgacc	gagatattgt 780	atttaagtgc	ctagctcgat	acaataaacg
attcaccaca gctgtctgcg	ttggtgtgca 840	cctccggccc	tggccactct	cttccgcatc
ggggccagct cagtactctt	gttgggctcg 900	cggttgagga	caaactcttc	gcggtctttc
ggatcggaaa gagcgagtcc	cccgtcggcc 960	tccgaacggg	actccgccgc	cgagggacct
gcatcgaccg gtcgtcttag	gatcggaaaa 1020	cctctcgaga	aaggcgtgta	accagtcaca
aactagtgga gccgaggcac	tccccggggc 1080	tgcaggaatt	cgataattcg	gcacgaggct
tgtgatgtcc acagtgatgg	ggggagatgg 1140	acaaaccgct	catcagtcgc	cgcttggtgg
cagtctggct gcggggattt	gaggtcccca 1200	aggaggctcc	caaagtgggc	atcctgggca
tgcccgggtcc tggaagccg	ctggccacac 1260	gcctgggtggg	ctctggcttc	tttgtggtgg

P2762US3 18JUN06YSC ST25.txt

taaccccaaa cgcactgccg gcctcttccc ctccttagcc caagtgactt
tccaggagga 1320

ggccgtgagc tctccagagg tcattcttgt ggccgtgttc cgggagcact
actcctcact 1380

gtgcagtctt gctgaccagt tggctggcaa gatcctagtg gatgtaagca
acccacgga 1440

gaaggagcgt cttcagcacc gccagtcgaa cgccgagtac ctggcctccc
tcttcctgc 1500

ctgcactgtg gtcaaggcct tcaacgtcat ctctgcatgg gccctacagg
ctggcccaag 1560

ggatgggaac aggcagggtgc tcattctgcg tgaccagctg gaagccaagc
acaccgtctc 1620

agagatggcg cgcgccatgg gtttcacccc actggacatg ggatccctgg
cctcagcgag 1680

ggaggtagag gccatacccc tgcgcctcct tccatcctgg aagggtgcca
ccctcctggc 1740

cctgggggcta agcacacaaa gctatgccta caacttcac cgggacgttc
tacagccgta 1800

catccggaaa gatgagaaca agttctacaa gatgcccctg tctgtggtca
acaccacgat 1860

accctgtgtg gcttacgtgc tgctgtccct ggtttacctg cctgggtgtgc
tggcagctgc 1920

ccttcagctg aggaggggga ccaagtacca gcgcttccca gactggctgg
accattggct 1980

gcagcaccgc aagcagatcg ggctactcag cttttttttt gccatgctgc
acgctctcta 2040

cagcttctgc ctgccgctgc gccgctccca ccgctatgat ctggtcaacc

P2762US3 18JUN06YSC ST25.txt

tggctgtgaa 2100

gcaggctcctg gccacaaga gccgcctctg ggttgaggaa gaagtctggc
ggatggagat 2160

atacctgtcc ctgggtgtgc tggctctggg catgctgtca ctgctggcgg
ttacctcgat 2220

cccttccatt gcaaaactcac tcaactggaa ggagttcagc tttgtgcagt
ccacgctggg 2280

cttcgtggcc ctgatgctga gcacaatgca caccctcacc tacggctgga
cccgtgcttt 2340

tgaggaaaac cactacaagt tctacctgcc acccacattc acgctcacgc
tgctcctgcc 2400

ctgtgtcatc atcctggcca agggcctctt cctcctgccc tgcctcagcc
acagactcac 2460

caagatccgc aggggctggg agagggatgg tgccgtcaag ttcattgctgc
ccgctggcca 2520

cacacagggg gagaaaacaa gccacgtgtg aggccctgga aatggagaca
ggcacagctt 2580

gtggggggccc tgggctgggt tcgggtctct tttctgggat ggtatatgcg
tgggtggccg 2640

aggtctgaat ttctgggatg cagggtgtatg ccgagatact cagaatggcg
taccacacat 2700

gcgataagta ctcacatata tttcatatat aataggattt actattattc
ttagttaaaa 2760

aaaaatagtg ggtccttata tttcaactta tgcagggtcc ctatatttca
acttgagcat 2820

ttcagagcaa atgccacaca ttaaacagca gatcccaccc ttgtggtagc
tgcagagaca 2880

P2762US3 18JUN06YSC ST25.txt

gacagaaact tctggttatg agagagactg tattttggtg gattctacct
ttaatccccg 2940

ttctctacgt tcccctgtta gccacatctt aacgttggtg cagagctggg
acaagagctg 3000

gctctggtgc agcctcccc atcccagggc taggaaacaa gcctctgatg
aacagagga 3060

ccaggctctg accctcctgc tcccgttcc ctgggctcga gtggggaggc
tcagcgggat 3120

ccccgcaat ctgtgcagga gttttcacag gtctgtcctt tcttccggga
gcggtctgaa 3180

gcggcccat ctgacccatg ctgagccgag attgttcccc actccctgaa
agtccagagt 3240

caccgtggag cctgcaaatt gctccttctg cgaagggtgtg aagtcaccgt
ctcaccagag 3300

ccattaacga acctgatctt cagaagaagc ataattgttt cccctccatt
aagttggtgg 3360

tgaccctctt taaaccactg tgccttctcg cctttcccat cactaatttg
ggcatctcca 3420

tgagtggtgac tcttgtcggg gcagttcagg ggggagggaa gcattagaga
ttgcggagaa 3480

taaccatcga agcctccctt ggatgttccc aggcgtgcct tcattaaatt
ggtccctaatt 3540

gagaatgaca ggggaccctt gttgcctgta tgcagagaac cagccttctg
agcaccagag 3600

aaacacagtg gccccacgcc cttcaggggg gtcccacgtc ccctttccca
tgcttttgcc 3660

tccctccctc ccggttacaa tcaaccataa aagtctgcaa atattgtttt
ttgaattatc 3720

P2762US3 18JUN06YSC ST25.txt

aagcttatcg ataccgtcga aacttggtta ttgcagctta taatgggttac
aaataaagca 3780

atagcatcac aaatttcaca aataaagcat ttttttcact gcattctagt
tgtggtttgt 3840

ccaaactcat caatgtatct tatcatgtct ggatccgacc tcgg
3884

<210> 11
<211> 32166
<212> DNA
<213> Artificial

<220> .
<223> vector comprising rat pHyde cDNA

<400> 11
atctggaagg tgctgaggta cgatgagacc cgcaccagggt gcagaccctg
cgagtgtggc 60

ggtaaacata ttaggaacca gcctgtgatg ctggatgtga ccgaggagct
gaggcccgat 120

cacttggtgc tggcctgcac ccgcgctgag tttggctcta gcgatgaaga
tacagattga 180

ggtactgaaa tgtgtgggcg tggcttaagg gtgggaaaga atatataagg
tgggggtcct 240

atgtagtttt gtatctgttt tgcagcagcc gccgcccga tgagcaccaa
ctcgtttgat 300

ggaagcattg tgagctcata tttgacaacg cgcatgcccc catgggcccgg
ggtgcgtcag 360

aatgtgatgg gctccagcat tgatggtcgc cccgtcctgc ccgcaaactc
tactaccttg 420

P2762US3 18JUN06YSC ST25.txt

acctacgaga ccggtgtctgg aacgccgttg gagactgcag cctccgccgc
cgcttcagcc 480

gctgcagcca ccgcccgcgg gattgtgact gactttgctt tcctgagccc
gcttgcaagc 540

agtgcagctt cccgttcata cgcccgcgat gacaagttga cggctctttt
ggcacaattg 600

gattctttga cccgggaact taatgtcgtt tctcagcagc tgttggatct
gcgccagcag 660

gtttctgccc tgaaggcttc ctcccctccc aatgcggttt aaaacataaa
taaaaaacca 720

gactctgttt ggatttggat caagcaagtg tcttgctgtc tttatttagg
ggttttgcgc 780

gcgcggtagg cccgggacca gcggtctcgg tcgttgaggg tcctgtgtat
tttttccagg 840

acgtggtaaa ggtgactctg gatgttcaga tacatgggca taagcccgtc
tctgggggtg 900

aggtagcacc actgcagagc ttcattgctgc ggggtggtgt tgtagatgat
ccagtcgtag 960

caggagcgct gggcgtggtg cctaaaaatg tctttcagta gcaagctgat
tgccaggggc 1020

aggcccttgg tgtaagtgtt tacaaagcgg ttaagctggg atgggtgcat
acgtggggat 1080

atgagatgca tcttggactg tatttttagg ttggctatgt tcccagccat
atccctccgg 1140

ggattcatgt tgtgcagaac caccagcaca gtgtatccgg tgcacttggg
aaatttgtca 1200

tgtagcttag aaggaaatgc gtggaagaac ttggagacgc ccttgtgacc
tccaagattt 1260

P2762US3 18JUN06YSC ST25.txt

tccatgcatt ggcgaagata	cgtccataat 1320	gatggcaatg	ggcccacggg	cggcggcctg
tttctgggat ggccattttt	cactaacgtc 1380	atagttgtgt	tccaggatga	gatcgtcata
acaaagcgcg cccaggggcg	ggcggagggt 1440	gccagactgc	ggtataatgg	ttccatccgg
tagttaccct gatcatgtct	cacagatttg 1500	catttcccac	gctttgagtt	cagatggggg
acctgcgggg ggaagaaagc	cgatgaagaa 1560	aacggtttcc	ggggtagggg	agatcagctg
aggttcctga acctattacc	gcagctgcga 1620	cttaccgcag	ccggtgggcc	cgtaaatac
gggtgcaact gggggccact	ggtagttaag 1680	agagctgcag	ctgccgtcat	ccctgagcag
tcgttaagca aaggcgctcg	tgtccctgac 1740	tcgcatgttt	tccctgacca	aatccgccag
ccgcccagcg gagaccgtcc	atagcagttc 1800	ttgcaaggaa	gcaaagtttt	tcaacggttt
gccgtaggca cagctcggtc	tgcttttgag 1860	cgtttgacca	agcagttcca	ggcgggtcca
acctgctcta gggcggcttt	cggcatctcg 1920	atccagcata	tctcctcggt	tcgcggggtg
cgctgtacgg ttccacgggc	cagtagtcgg 1980	tgctcgtcca	gacgggccag	ggtcatgtct
gcagggtcct ggctgcgcgc	cgtcagcgta 2040	gtctgggtca	cggatgaagg	gtgcgctccg
tggccagggt	gcgcttgagg	ctggtcctgc	tggatgctgaa	gcgctgccgg

P2762US3 18JUN06YSC ST25.txt

tcttcgccct 2100

gcgcgtcggc caggtagcat ttgaccatgg tgtcatagtc cagccccctcc
gcggcgtggc 2160

ccttggcgcg cagcttgccc ttggaggagg cgccgcacga ggggcagtgc
agacttttga 2220

gggcgtagag cttgggcgcg agaaataccg attccgggga gtaggcatcc
gcgccgcagg 2280

ccccgcagac ggtctcgcac tccacgagcc aggtgagctc tggccgttcg
gggtcaaaaa 2340

ccaggtttcc cccatgcttt ttgatgcgtt tcttacctct ggtttccatg
agccggtgtc 2400

cacgctcggt gacgaaaagg ctgtccgtgt ccccgataac agacttgaga
ggcctgtcct 2460

cgagcggtgt tccgcggtcc tcctcgtata gaaactcgga ccactctgag
acaaaggctc 2520

gcgtccaggc cagcacgaag gaggctaagt gggaggggta gcggtcgttg
tccactaggg 2580

ggtccactcg ctccagggtg tgaagacaca tgtcgccctc ttcggcatca
aggaagggtga 2640

ttggtttgta ggtgtaggcc acgtgaccgg gtgttcctga aggggggcta
taaaaggggg 2700

tgggggcgcg ttcgtcctca ctctcttccg catcgctgtc tgcgagggcc
agctgttggg 2760

gtgagtactc cctctgaaaa gcgggcatga cttctgcgct aagattgtca
gtttccaaaa 2820

acgaggagga tttgatattc acctggcccg cggtgatgcc tttgagggtg
gccgcatcca 2880

P2762US3 18JUN06YSC ST25.txt

tctggtcaga	aaagacaatc	tttttgttgt	caagcttggt	ggcaaacgac
ccgtagagg	2940			
cggtggacag	caacttggcg	atggagcgca	gggtttggtt	ttgtcgcga
tcggcgcgct	3000			
ccttggccgc	gatgttttagc	tgcacgtatt	cgcgcgcaac	gcaccgccat
tcgggaaaga	3060			
cggtggtgcg	ctcgtcgggc	accaggtgca	cgcgccaacc	gcggttggtc
agggtgacaa	3120			
ggtcaacgct	ggtggctacc	tctccgcgta	ggcgctcggt	ggtccagcag
aggcggccgc	3180			
ccttgcgcg	gcagaatggc	ggtaggggggt	ctagctgcgt	ctcgtccggg
gggtctgcgt	3240			
ccacggtaaa	gaccccgggc	agcaggcgcg	cgtcgaagta	gtctatcttg
catccttgca	3300			
agtctagcgc	ctgctgccat	gcgcggggcg	caagcgcgcg	ctcgtatggg
ttgagtgggg	3360			
gaccccatgg	catgggggtgg	gtgagcgcg	aggcgtagat	gccgcaaagt
tcgtaaactg	3420			
agaggggctc	tctgagtatt	ccaagatatg	tagggtagca	tcttccaccg
cggatgctgg	3480			
cgcgcacgta	atcgtatagt	tcgtgcgagg	gagcgaggag	gtcgggaccg
aggttgctac	3540			
gggcgggctg	ctctgctcgg	aagactatct	gcctgaagat	ggcatgtgag
ttggatgata	3600			
tggttggacg	ctggaagacg	ttgaagctgg	cgtctgtgag	acctaccgcg
tcacgcacga	3660			
aggaggcgta	ggagtcgcgc	agcttggtga	ccagctcggc	ggtgacctgc
acgtctaggg	3720			

P2762US3 18JUN06YSC ST25.txt

```
cgtagtagtc cagggtttcc ttgatgatgt catacttata ctgtcccttt
ttttccaca 3780

gctcgcggtt gaggacaaac tcttcgcggt ctttccagta ctcttgatc
ggaaacccgt 3840

cggcctccga acggttaagag cctagcatgt agaactgggt gacggcctgg
taggcgcagc 3900

atcccttttc tacgggtagc gcgtatgcct gcgcggcctt ccggagcgag
gtgtgggtga 3960

gcgcaaaggt gtccctgacc atgactttga ggtactggta tttgaagtca
gtgtcgtcgc 4020

atccgccctg ctcccagagc aaaaagtccg tgcgcttttt ggaacgcgga
tttggcaggg 4080

cgaaggtgac atcgttgaag agtatctttc ccgcgcgagg cataaagttg
cgtgtgatgc 4140

ggaaggggtc cggcacctcg gaacggttgt taattacctg ggcggcgagc
acgatctcgt 4200

caaagccgtt gatgttgtgg cccacaatgt aaagttccaa gaagcgcggg
atgcccttga 4260

tggaaggcaa ttttttaagt tcctcgtagg tgagctcttc aggggagctg
agcccgtgct 4320

ctgaaagggc ccagtctgca agatgagggt tggaagcgac gaatgagctc
cacaggtcac 4380

gggccattag catttgagcagg tggtcgcgaa aggtcctaaa ctggcgacct
atggccattt 4440

tttctggggg gatgcagtag aaggtaagcg ggtcttggtc ccagcgggtc
catccaaggt 4500

tcgcggctag gtctcgcgcg gcagtcacta gaggtcatc tccgccgaac
```

P2762US3 18JUN06YSC ST25.txt

ttcatgacca 4560

gcatgaaggg cactgagctgc ttcccaaagg ccccatcca agtataggct
tctacatcgt 4620

aggtgacaaa gagacgctcg gtgagaggat gcgagccgat cgggaagaac
tggatctccc 4680

gccaccaatt ggaggagtgg ctattgatgt ggtgaaagta gaagtccttg
cgacgggccc 4740

aacactcgtg ctggcttttg taaaaacgtg cgcagtactg gcagcgggtg
acgggctgta 4800

catcctgcac gaggttgacc tgacgaccgc gcacaaggaa gcagagtggg
aatttgagcc 4860

cctcgcttgg cgggtttggc tgggtggtctt ctacttcggc tgcttgtcct
tgaccgtctg 4920

gctgctcgag gggagttacg gtggatcgga ccaccacgcc gcgcgagccc
aaagtccaga 4980

tgtccgcgcg cggcgggtcgg agcttgatga caacatcgcg cagatgggag
ctgtccatgg 5040

tctggagctc ccgcggcgctc aggtcaggcg ggagctcctg caggtttacc
tcgcatagac 5100

gggtcagggc gcgggctaga tccaggtgat acctaatttc caggggctgg
ttggtggcgg 5160

cgtcgatggc ttgcaagagg ccgcaccccc gcggcgcgac tacggtaccg
cgcggcgggc 5220

ggtgggcccgc ggggggtgtcc ttggatgatg catctaaaag cggtgacgcg
ggcgagcccc 5280

cggaggtagg gggggctccg gacccgccgg gagagggggc aggggcacgt
cgcgccgcgc 5340

P2762US3 18JUN06YSC ST25.txt

cgcgggcagg agctggtgct gcgcgcgtag gttgctggcg aacgcgacga
cgcggcggtt 5400

gatctcctga atctggcgcc tctgcgtgaa gacgacgggc ccggtgagct
tgagcctgaa 5460

agagagttcg acagaatcaa ttctcgtgtc gttgacggcg gcctggcgca
aaatctcctg 5520

cacgtctcct gagttgtctt gataggcgat ctcggccatg aactgctcga
tctcttcctc 5580

ctggagatct ccgcgtccgg ctcgctccac ggtggcgggc aggtcgttgg
aaatgcgggc 5640

catgagctgc gagaaggcgt tgaggcctcc ctcgttccag acgcggctgt
agaccacgcc 5700

cccttcggca tcgcgggcgc gcatgaccac ctgcgcgaga ttgagctcca
cgtgccgggc 5760

gaagacggcg tagtttcgca ggcgctgaaa gaggtagttg aggggtggtgg
cgggtgtgtc 5820

tgccacgaag aagtacataa cccagcgtcg caacgtggat tcgttgatat
cccccaaggc 5880

ctcaaggcgc tccatggcct cgtagaagtc cacggcgaag ttgaaaaact
gggagttgcg 5940

cgccgacacg gttaactcct cctccagaag acggatgagc tcggcgacag
tgtcgcgcac 6000

ctcgcgctca aaggctacag gggcctcttc ttcttcttca atctcctctt
ccataagggc 6060

ctccccttct tcttcttctg gcggcggtgg gggagggggg acacggcggc
gacgacggcg 6120

caccgggagg cggtcgacaa agcgtcgcg catctccccg cggcgacggc
gcatggtctc 6180

P2762US3 18JUN06YSC ST25.txt

ggtgacggcg cggccgttct cgcgggggag cagttggaag acgccgcccg
 tcatgtcccg 6240
 gttatgggtt ggcggggggc tgccatgcgg cagggatacg gcgctaacga
 tgcattctca 6300
 caattgttgt gtaggtactc cgccgcccag ggacctgagc gagtccgcat
 cgaccggatc 6360
 ggaaaacctc tcgagaaagg cgtctaacca gtcacagtcg caaggtaggc
 tgagcaccgt 6420
 ggcggggcgc agcggggcgc ggtcgggggt gtttctggcg gaggtgctgc
 tgatgatgta 6480
 attaaagtag gcggtcttga gacggcggat ggtcgacaga agcaccatgt
 ccttgggtcc 6540
 ggcctgctga atgcgcaggc ggtcggccat gccccaggct tcgttttgac
 atcggcgagc 6600
 gtctttgtag tagtcttgca tgagcctttc taccggcact tcttcttctc
 cttcctcttg 6660
 tcctgcatct cttgcatcta tcgctgcggc ggcggcggag tttggccgta
 ggtggcgccc 6720
 tcttctccc atgcgtgtga cccgaagcc cctcatcggc tgaagcaggg
 ctaggtcggc 6780
 gacaacgcgc tcggctaata tggcctgctg cacctgcgtg agggtagact
 ggaagtcac 6840
 catgtccaca aagcgggtgt atgcgcccgt gttgatgggt taagtgcagt
 tggccataac 6900
 ggaccagtta acggtctggt gacccggctg cgagagctcg gtgtacctga
 gacgcgagta 6960
 agccctcgag tcaaatacgt agtcgttgca agtccgcacc aggtactggt

atccccaccaa P2762US3 18JUN06YSC ST25.txt
 7020
 aaagtgcggc ggaggctggc ggtagagggg ccagcgtagg gtggccgggg
 ctccgggggc 7080
 gagatcttcc aacataaggc gatgatatcc gtagatgtac ctggacatcc
 aggtgatgcc 7140
 ggaggcggtg gtggaggcgc gcggaaagtc gcggacgcgg ttccagatgt
 tgcgcagcgg 7200
 caaaaagtgc tccatggtcg ggacgctctg gccggtcagg cgcgcgcaat
 cgttgacgct 7260
 ctaccgtgca aaaggagagc ctgtaagcgg gcactcttcc gtggtctggt
 ggataaattc 7320
 gcaagggtat catggcggac gaccgggggt cgagccccgt atccggccgt
 ccgccgtgat 7380
 ccatgcggtt accgcccgcg tgcgaaccc aggtgtgcga cgtcagacaa
 cgggggagtg 7440
 ctcccttttg cttccttcca ggcgcggcgg ctgctgcgct agcttttttg
 gccactggcc 7500
 gcgcgcagcg taagcggtta ggctggaaag cgaaagcatt aagtggctcg
 ctccctgtag 7560
 ccggagggtt attttccaag ggttgagtcg cgggaccccc ggttcgagtc
 tcggaccggc 7620
 cggactgcgg cgaacggggg tttgcctccc cgtcatgcaa gaccccgctt
 gcaaattcct 7680
 ccggaaacag ggacgagccc cttttttgct tttcccagat gcatccggtg
 ctgcggcaga 7740
 tgcgcccccc tcctcagcag cggcaagagc aagagcagcg gcagacatgc
 agggcaccct 7800

P2762US3 18JUN06YSC ST25.txt

ccccctcctcc taccgctca ggaggggcga catccgcggt tgacgcggca
gcagatggtg 7860

attacgaacc cccgcggcgc cgggcccggc actacctgga cttggaggag
ggcgagggcc 7920

tggcgcggct aggagcggc tctcctgagc ggtaccaag ggtgcagctg
aagcgtgata 7980

cgcgtagggc gtacgtgccg cggcagaacc tgtttcgcga ccgcgagggg
gaggagccc 8040

aggagatgcg ggatcgaaag ttccacgcag ggcgcgagct gcggcatggc
ctgaatcgcg 8100

agcggttgct gcgcgaggag gactttgagc ccgacgcgcg aaccgggatt
agtcccgcgc 8160

gcgcacacgt ggcggccgcc gacctggtaa ccgcatacga gcagacggtg
aaccaggaga 8220

ttaactttca aaaaagcttt aacaaccacg tgcgtacgct tgtggcgcgc
gaggaggtgg 8280

ctataggact gatgcatctg tgggactttg taagcgcgct ggagcaaaac
ccaaatagca 8340

agccgctcat ggcgcagctg ttccttatag tgcagcacag cagggacaac
gaggcattca 8400

gggatgcgct gctaaacata gtagagcccg agggccgctg gctgctcgat
ttgataaaca 8460

tcctgcagag catagtgggtg caggagcgca gcttgagcct ggctgacaag
gtggccgcca 8520

tcaactattc catgcttagc ctgggcaagt ttacgcccgc caagatatac
catacccctt 8580

acgttcccat agacaaggag gtaaagatcg aggggttcta catgcgcatg
gcgctgaagg 8640

P2762US3 18JUN06YSC ST25.txt

tgcttacctt	gagcgacgac	ctgggcgttt	atcgcaacga	gcgcatccac
aaggccgtga	8700			
gcgtgagccg	gcggcgcgag	ctcagcgacc	gcgagctgat	gcacagcctg
caaagggccc	8760			
tggctggcac	gggcagcggc	gatagagagg	ccgagtccta	ctttgacgcg
ggcgctgacc	8820			
tgcgctgggc	cccaagccga	cgcgccctgg	aggcagctgg	ggccggacct
gggctggcgg	8880			
tggcaccgcg	gcgcgctggc	aacgtcggcg	gcgtggagga	atatgacgag
gacgatgagt	8940			
acgagccaga	ggacggcgag	tactaagcgg	tgatgtttct	gatcagatga
tgcaagacgc	9000			
aacggacccg	gcggtgcggg	cggcgctgca	gagccagccg	tccggcctta
actccacgga	9060			
cgactggcgc	caggtcatgg	accgcatcat	gtcgctgact	gcgcgcaatc
ctgacgcgtt	9120			
ccggcagcag	ccgcaggcca	accggctctc	cgcaattctg	gaagcgggtg
tcccggcgcg	9180			
cgcaaaccac	acgcacgaga	aggtgctggc	gatcgtaaac	gcgctggccg
aaaacagggc	9240			
catccggccc	gacgaggccg	gcctgggtcta	cgacgcgctg	cttcagcgcg
tggctcgtta	9300			
caacagcggc	aacgtgcaga	ccaacctgga	ccggctgggtg	ggggatgtgc
gcgaggccgt	9360			
ggcgcagcgt	gagcgcgcg	agcagcaggg	caacctgggc	tccatgggtg
cactaaacgc	9420			
cttcctgagt	acacagcccg	ccaacgtgcc	gcggggacag	gaggactaca

P2762US3 18JUN06YSC ST25.txt

ccaactttgt 9480

gagcgactg cggctaattg tgactgagac accgcaaagt gaggtgtacc
agtctgggccc 9540

agactatttt ttccagacca gtagacaagg cctgcagacc gtaaacctga
gccaggcttt 9600

caaaaacttg caggggctgt ggggggtgcg ggctcccaca ggcgaccgcg
cgaccgtgtc 9660

tagcttgctg acgcccact cgcgctgtt gctgctgcta atagcgccct
tcacggacag 9720

tggcagcgtg tcccgggaca catacctagg tcacttgctg acactgtacc
gcgaggccat 9780

aggtcaggcg catgtggacg agcatacttt ccaggagatt acaagtgtca
gccgcgcgct 9840

ggggcaggag gacacgggca gcctggaggc aaccctaaac tacctgctga
ccaaccggcg 9900

gcagaagatc ccctcgttgc acagtttaaa cagcgaggag gagcgcatth
tgcgctacgt 9960

gcagcagagc gtgagcctta acctgatgcg cgacggggta acgcccagcg
tggcgctgga 10020

catgaccgcg cgcaacatgg aaccgggcat gtatgcctca aaccggccgt
ttatcaaccg 10080

cctaattggac tacttgcatc gcgcggccgc cgtgaacccc gagtattttca
ccaatgccat 10140

cttgaacccg cactggctac cgccccctgg tttctacacc gggggattcg
aggtgcccga 10200

gggtaacgat ggattcctct gggacgacat agacgacagc gtgttttccc
cgcaaccgca 10260

P2762US3 18JUN06YSC ST25.txt

gaccctgcta gagttgcaac agcgcgagca ggcagaggcg gcgctgcgaa
aggaaagctt 10320

ccgcaggcca agcagcttgt ccgatctagg cgctgcggcc ccgcggtcag
atgctagtag 10380

cccatttcca agcttgatag ggtctcttac cagcactcgc accacccgcc
cgcgcctgct 10440

gggcgaggag gagtaccta acaactcgct gctgcagccg cagcgcgaaa
aaaacctgcc 10500

tccggcattt cccaacaacg ggatagagag cctagtggac aagatgagta
gatggaagac 10560

gtacgcgcag gaggacaggg acgtgccagg cccgcgcccgc cccacccgtc
gtcaaaggca 10620

cgaccgtcag cggggtctgg tgtgggagga cgatgactcg gcagacgaca
gcagcgtcct 10680

ggatttgagg gggagtggca acccgtttgc gcaccttcgc cccaggctgg
ggagaatgtt 10740

ttaaaaaaaaa aaaagcatga tgcaaaataa aaaactcacc aaggccatgg
caccgagcgt 10800

tggtttttctt gtattcccct tagtatgcgg cgcgcggcga tgtatgagga
aggtcctcct 10860

ccctcctacg agagtgtggt gaggcgcggcg ccagtggcgg cggcgctggg
ttctcccttc 10920

gatgctcccc tggacccgcc gtttgtgcct ccgcggtacc tgcggcctac
cgggggggaga 10980

aacagcatcc gttactctga gttggcacc ctattcgaca ccacccgtgt
gtacctggtg 11040

gacaacaagt caacggatgt ggcattccctg aactaccaga acgaccacag
caactttctg 11100

P2762US3 18JUN06YSC ST25.txt

```

accacggtca ttcaaaacaa tgactacagc ccgggggagg caagcacaca
gaccatcaat 11160

cttgacgacc ggtcgcactg gggcggcgac ctgaaaacca tcctgcatac
caacatgcca 11220

aatgtgaacg agttcatggt taccaataag tttaaggcgc gggatgatgg
gtcgcgcttg 11280

cctactaagg acaatcagggt ggagctgaaa tacgagtggg tggagtccac
gctgcccag 11340

ggcaactact ccgagaccat gaccatagac cttatgaaca acgcgatcgt
ggagcactac 11400

ttgaaagtgg gcagacagaa cgggggttctg gaaagcgaca tcggggtaaa
gtttgacacc 11460

cgcaacttca gactgggggtt tgaccccgtc actggtcttg tcatgcctgg
ggtatataca 11520

aacgaagcct tccatccaga catcattttg ctgccaggat gcgggggtgga
cttcaccac 11580

agccgcctga gcaacttggt gggcatccgc aagcggcaac cttccagga
gggctttagg 11640

atcacctacg atgatctgga gggtggtaac attcccgcac tggttgatgt
ggacgcctac 11700

caggcgagct tgaaagatga caccgaacag ggcgggggtg gcgcaggcgg
cagcaacagc 11760

agtggcagcg gcgcggaaga gaactccaac gcggcagccg cggcaatgca
gccggtggag 11820

gacatgaacg atcatgccat tcgcggcgac acctttgcca cacgggctga
ggagaagcgc 11880

gctgaggccg aagcagcggc cgaagctgcc gccccgctg cgcaaccgga

```

P2762US3 18JUN06YSC ST25.txt

ggtcgagaag 11940

cctcagaaga aaccggtgat caaaccctg acagaggaca gcaagaaacg
cagttacaac 12000

ctaataagca atgacagcac cttcaccag taccgcagct ggtaccttgc
atacaactac 12060

ggcgaccctc agaccggaat ccgctcatgg accctgcttt gcactcctga
cgtaacctgc 12120

ggctcggagc aggtctactg gtcgttgcca gacatgatgc aagaccccgt
gaccttccgc 12180

tccacgcgcc agatcagcaa ctttccggtg gtgggcgccg agctgttgcc
cgtgcactcc 12240

aagagcttct acaacgacca ggccgtctac tcccaactca tccgccagtt
tacctctctg 12300

accacgtgt tcaatcgctt tcccgagaac cagattttgg cgcgccccgc
agccccacc 12360

atcaccaccg tcagtgaaaa cgttcctgct ctcacagatc acgggacgct
accgctgcgc 12420

aacagcatcg gaggagtcca gcgagtgacc attactgacg ccagacgccg
cacctgcccc 12480

tacgtttaca aggccctggg catagtctcg ccgcgcgtcc tatcgagccg
cactttttga 12540

gcaagcatgt ccatccttat atcgcccagc aataacacag gctggggcct
gcgcttccca 12600

agcaagatgt ttggcggggc caagaagcgc tccgaccaac acccagtgcg
cgtgcgcggg 12660

cactaccgcg cgccctgggg cgcgcacaaa cgcggccgca ctgggcgcac
caccgtcgat 12720

P2762US3 18JUN06YSC ST25.txt

gacgccatcg	acgcggtggt	ggaggaggcg	cgcaactaca	cgccccacgcc
gccaccagtg	12780			
tccacagtgg	acgcggccat	tcagaccgtg	gtgcgcggag	cccggcgcta
tgctaaaatg	12840			
aagagacggc	ggaggcgcg	agcacgtcgc	caccgccgcc	gacccggcac
tgccgcccac	12900			
cgcgcgggcg	cgcccctgct	taaccgcgca	cgtcgcaccg	gccgacgggc
ggccatgcgg	12960			
gccgctcgaa	ggctggccgc	gggtattgtc	actgtgcccc	ccaggtccag
gcgacgagcg	13020			
gccgccgcag	cagccgcggc	cattagtgtc	atgactcagg	gtcgcagggg
caacgtgtat	13080			
tgggtgcgcg	actcggttag	cggcctgcgc	gtgcccgtgc	gcacccgccc
cccgcgcaac	13140			
tagattgcaa	gaaaaaacta	cttagactcg	tactgttgta	tgtatccagc
ggcggcgggc	13200			
cgcaacgaag	ctatgtccaa	gcgcaaaatc	aaagaagaga	tgctccaggt
catcgcgccg	13260			
gagatctatg	gccccccgaa	gaaggaagag	caggattaca	agccccgaaa
gctaaagcgg	13320			
gtcaaaaaga	aaaagaaaga	tgatgatgat	gaacttgacg	acgaggtgga
actgctgcac	13380			
gctaccgcgc	ccaggcgacg	ggtacagtgg	aaaggctcgac	gcgtaaaacg
tgttttgcga	13440			
cccggcacca	ccgtagtctt	tacgcccggg	gagcgctcca	cccgcaccta
caagcgcggtg	13500			
tatgatgagg	tgtacggcga	cgaggacctg	cttgagcagg	ccaacgagcg
cctcgggggag	13560			

P2762US3 18JUN06YSC ST25.txt

```

tttgccctacg gaaagcggca taaggacatg ctggcgttgc cgctggacga
gggcaaccca 13620
acacctagcc taaagcccgt aacactgcag caggtgctgc ccgcgcttgc
accgtccgaa 13680
gaaaagcgcg gcctaaagcg cgagtctggt gacttggcac ccaccgtgca
gctgatggta 13740
cccaagcgcg agcgactgga agatgtcttg gaaaaaatga ccgtggaacc
tgggctggag 13800
cccgaggtcc gcgtgcggcc aatcaagcag gtggcgccgg gactgggcgt
gcagaccgtg 13860
gacgttcaga taccactac cagtagcacc agtattgcca ccgccacaga
gggcatggag 13920
acacaaacgt ccccggttgc ctcagcggtg gcggatgccg cgggtgcaggc
ggtcgctgcg 13980
gccgcgtcca agacctctac ggagggtgcaa acggacccgt ggatgtttcg
cgtttcagcc 14040
ccccggcgcc cgcgcggttc gaggaagtac ggcgccgcca gcgcgctact
gcccgaatat 14100
gccctacatc cttccattgc gcctaccccc ggctatcgtg gctacaccta
ccgccccaga 14160
agacgagcaa ctacccgacg ccgaaccacc actggaaccc gccgccgccc
tcgccgtcgc 14220
cagcccgtgc tggccccgat ttccgtgcgc aggggtggctc gcgaaggagg
caggaccctg 14280
gtgctgccaa cagcgcgcta ccaccccagc atcgttttaa agccggtctt
tgtggttctt 14340
gcagatatgg ccctcacctg ccgcctccgt ttcccgggtgc cgggattccg

```

P2762US3 18JUN06YSC ST25.txt

aggaagaatg 14400

caccgtagga ggggcatggc cggccacggc ctgacgggcg gcatgcgctg
 tgcgcaccac 14460

cggcggcggc gcgcgctcga ccgtcgcgcatg cgcggcggta tcctgcccct
 ccttattcca 14520

ctgatcgccg cggcgattgg cgccgtgccc ggaattgcat ccgtggcctt
 gcaggcgag 14580

agacactgat taaaaacaag ttgcatgtgg aaaaatcaaa ataaaaagtc
 tggactctca 14640

cgctcgcttg gtcctgtaac tattttgtag aatggaagac atcaactttg
 cgtctctggc 14700

cccgcgacac ggctcgcgcc cgttcatggg aaactggcaa gatatcggca
 ccagcaatat 14760

gagcgggtggc gccttcagct ggggctcgct gtggagcggc attaaaaatt
 tcggttccac 14820

cgттаагаас tatggcagca aggcctggaa cagcagcaca ggccagatgc
 tgagggataa 14880

gttgaaagag caaaatttcc aacaaaagggt ggtagatggc ctggcctctg
 gcattagcgg 14940

ggtggtggac ctggccaacc aggcagtgc aaataagatt aacagtaagc
 ttgatccccg 15000

ccctcccgtg gaggagcctc caccggccgt ggagacagtg tctccagagg
 ggcgtggcga 15060

aaagcgtccg cgccccgaca gggaagaaac tctggtgacg caaatagacg
 agcctccctc 15120

gtacgaggag gcactaaagc aaggcctgcc caccacccgt cccatcgcg
 ccatggctac 15180

P2762US3 18JUN06YSC ST25.txt

cgagtgctg	ggccagcaca	cacccgtaac	gctggacctg	cctccccccg
ccgacaccca	15240			
gcagaaacct	gtgctgccag	gcccgaccgc	cgttgttgta	acccgtccta
gccgcgcgtc	15300			
cctgcgccgc	gccgccagcg	gtccgcgata	gttgcgggcc	gtagccagtg
gcaactggca	15360			
aagcacactg	aacagcatcg	tgggtctggg	ggtgcaatcc	ctgaagcgcc
gacgatgctt	15420			
ctgaatagct	aacgtgtcgt	atgtgtgtca	tgtatgcgtc	catgtcgccg
ccagaggagc	15480			
tgctgagccg	ccgcgcgccc	gctttccaag	atggctaccc	cttcgatgat
gccgcagtgg	15540			
tcttacatgc	acatctcggg	ccaggacgcc	tcggagtacc	tgagccccgg
gctggtgcag	15600			
tttggccgcg	ccaccgagac	gtacttcagc	ctgaataaca	agtttagaaa
ccccacgggtg	15660			
gcgcctacgc	acgacgtgac	cacagaccgg	tcccagcggt	tgacgctgcg
gttcacccct	15720			
gtggaccgtg	aggatactgc	gtactcgtac	aaggcgcggt	tcaccctagc
tgtgggtgat	15780			
aaccgtgtgc	tggacatggc	ttccacgtac	tttgacatcc	gcggcggtgct
ggacaggggc	15840			
cctactttta	agccctactc	tggcactgcc	tacaacgccc	tggctcccaa
gggtgccccca	15900			
aatccttgcg	aatgggatga	agctgctact	gctcttgaaa	taaacctaga
agaagaggac	15960			
gatgacaacg	aagacgaagt	agacgagcaa	gctgagcagc	aaaaaactca
cgtattttggg	16020			

P2762US3 18JUN06YSC ST25.txt

caggcgcctt attctggtat aaatattaca aaggagggtta ttcaaatagg
 tgtcgaaggt 16080

caaacaccta aatatgccga taaaacattt caacctgaac ctcaaatagg
 agaatctcag 16140

tggtacgaaa ctgaaattaa tcatgcagct gggagagtcc ttaaaaagac
 taccccaatg 16200

aaaccatggt acggttcata tgcaaaaccc acaaataaaa atggagggtca
 aggcattctt 16260

gtaaagcaac aaaatggaaa gctagaaagt caagtggaaa tgcaattttt
 ctcaactact 16320

gaggcgaccg caggcaatgg tgataacttg actcctaaag tggatttgta
 cagtgaagat 16380

gtagatatag aaaccccaga cactcatatt tcttacatgc ccactattaa
 ggaaggtaac 16440

tcacgagaac taatgggcca acaatctatg cccaacaggc ctaattacat
 tgcttttagg 16500

gacaatttta ttgggtctaatt gtattacaac agcacgggtta atatgggtgt
 tctggcgggc 16560

caagcatcgc agttgaatgc tgttgtagat ttgcaagaca gaaacacaga
 gctttcatac 16620

cagctttttgc ttgattccat tggatgtaga accagggtact tttctatgtg
 gaatcaggct 16680

gttgacagct atgatccaga tgttagaatt attgaaaatc atggaactga
 agatgaactt 16740

ccaaattact gctttccact gggagggtgtg attaatacag agactcttac
 caaggtaaaa 16800

cctaaaacag gtcaggaaaa tggatgggaa aaagatgcta cagaattttc

P2762US3 18JUN06YSC ST25.txt

agataaaaat 16860

gaaataagag ttggaaataa ttttgccatg gaaatcaatc taaatgccaa
cctgtggaga 16920

aatttcctgt actccaacat agcgctgtat ttgcccgaca agctaaagta
cagtccttcc 16980

aacgtaaaaa tttctgataa cccaaacacc tacgactaca tgaacaagcg
agtgggtggct 17040

cccgggttag tggactgcta cattaacctt ggagcacgct ggtcccttga
ctatatggac 17100

aacgtcaacc catttaacca ccaccgcaat gctggcctgc gctaccgctc
aatgttgctg 17160

ggcaatggtc gctatgtgcc cttccacatc caggtgcctc agaagttctt
tgccattaaa 17220

aacctccttc tcctgccggg ctcatcacacc tacgagtggg acttcaggaa
ggatgttaac 17280

atggttctgc agagctccct aggaaatgac ctaaggggtg acggagccag
cattaagttt 17340

gatagcattt gcctttacgc caccttcttc cccatggccc acaacaccgc
ctccacgctt 17400

gaggccatgc ttagaaacga caccaacgac cagtccttta acgactatct
ctccgccgcc 17460

aacatgctct accctatacc cgccaacgct accaacgtgc ccatatccat
cccctcccgc 17520

aactgggcgg ctttccgcgg ctgggccttc acgcgctta agactaagga
aaccatca 17580

ctgggctcgg gctacgaccc ttattacacc tactctggct ctatacccta
cctagatgga 17640

P2762US3 18JUN06YSC ST25.txt

acctttttacc tcaaccacac ctttaagaag gtggccatta cctttgactc
ttctgtcagc 17700

tggcctggca atgaccgcct gcttaccccc aacgagtttg aaattaagcg
ctcagttgac 17760

ggggaggggtt acaacgttgc ccagtgtaac atgaccaaag actggttcct
ggtacaaatg 17820

ctagctaact acaacattgg ctaccagggc ttctatatcc cagagagcta
caaggaccgc 17880

atgtactcct tctttagaaa cttccagccc atgagccgtc aggtgggtgga
tgatactaaa 17940

tacaaggact accaacaggt gggcatccta caccaacaca acaactctgg
atttgttggc 18000

taccttgccc ccaccatgcg cgaaggacag gcctaccctg ctaacttccc
ctatccgctt 18060

ataggcaaga ccgcagttga cagcattacc cagaaaaagt ttctttgcga
tcgcaccctt 18120

tggcgcaccc catttctccag taactttatg tccatgggcg cactcacaga
cctggggcaa 18180

aacctttctt acgccaactc cgcccacgcg ctagacatga cttttgaggt
ggatcccatg 18240

gacgagccca cccttcttta tgttttgttt gaagtctttg acgtgggtccg
tgtgcaccgg 18300

ccgcaccgcg gcgtcatcga aaccgtgtac ctgcgcacgc ctttctcggc
cggcaacgcc 18360

acaacataaa gaagcaagca acatcaacaa cagctgccgc catgggctcc
agtgagcagg 18420

aactgaaagc cattgtcaaa gatcttggtt gtggggccata ttttttgggc
acctatgaca 18480

P2762US3 18JUN06YSC ST25.txt

agcgctttcc aggctttggt tctccacaca agctcgcttg cgccatagtc
aatacggccg 18540

gtcgcgagac tgggggcgta cactggatgg cctttgcctg gaacccgcac
tcaaaaacat 18600

gctacctctt tgagcccttt ggcttttctg accagcgact caagcagggt
taccagtttg 18660

agtacgagtc actcctgcgc cgtagcgcca ttgcttcttc ccccgaccgc
tgtataacgc 18720

tggaaaagtc cacccaaagc gtacaggggc ccaactcggc cgcctgtgga
ctattctgct 18780

gcatgtttct ccacgccttt gccaaactggc cccaaactcc catggatcac
aaccaccca 18840

tgaaccttat taccggggta cccaactcca tgctcaacag tccccaggta
cagcccaccc 18900

tgcgtcgcaa ccaggaacag ctctacagct tcctggagcg ccaactcgccc
tacttccgca 18960

gccacagtgc gcagattagg agcgccactt ctttttgtca cttgaaaaac
atgtaaaaat 19020

aatgtactag agacactttc aataaaggca aatgctttta tttgtacact
ctcgggtgat 19080

tatttacccc cacccttgcc gtctgcgccg tttaaaaatc aaaggggttc
tgccgcgcac 19140

cgctatgcgc cactggcagg gacacgttgc gatactgggtg tttagtgtc
cacttaaact 19200

caggcacaac catccgcggc agctcgggtga agttttcact ccacaggctg
cgaccatca 19260

ccaacgcggt tagcaggctg ggcgccgata tcttgaagtc gcagttgggg

P2762US3 18JUN06YSC ST25.txt

cctccgccct 19320

gcgcgcgcga gttgcgatac acaggggttg agcactggaa cactatcagc
gccgggtggt 19380

gcacgctggc cagcacgctc ttgtcggaga tcagatccgc gtccagggtcc
tccgcgttgc 19440

tcagggcgaa cggagtcaac tttggtagct gccttcccaa aaagggcgcg
tgcccaggct 19500

ttgagttgca ctgcaccgt agtggcatca aaagggtgacc gtgcccggtc
tgggcggttag 19560

gatacagcgc ctgcataaaa gccttgatct gcttaaaagc cacctgagcc
tttgcgctt 19620

cagagaagaa catgccgcaa gacttgccgg aaaactgatt ggccggacag
gccgcgtcgt 19680

gcacgcagca ctttgcgtcg gtgttgagaga tctgcaccac atttcggccc
caccggttct 19740

tcacgatctt ggccttgcta gactgctcct tcagcgcgcg ctgcccgttt
tcgctcgtca 19800

catccatttc aatcacgtgc tccttattta tcataatgct tccgtgtaga
cacttaagct 19860

cgccttcgat ctcagcgcag cgggtgcagcc acaacgcgca gcccgtgggc
tcgtgatgct 19920

tgtaggtcac ctctgcaaac gactgcaggt acgcctgcag gaatcgcccc
atcatcgtca 19980

caaaggctct gttgctgggtg aagggtcagct gcaacccgcg gtgctcctcg
ttcagccagg 20040

tcttgcatat ggccgcgaga gcttccactt ggtcaggcag tagtttgaag
ttcgccctta 20100

P2762US3 18JUN06YSC ST25.txt

gatcggtatc	cacgtggtac	ttgtccatca	gcgcgcgcgc	agcctccatg
cccttctccc	20160			
acgcagacac	gatcggcaca	ctcagcgggt	tcatcaccgt	aatttcactt
tccgcttcgc	20220			
tgggctcttc	ctcttcctct	tgcgtccgca	taccacgcgc	cactgggtcg
tcttcattca	20280			
gccgccgcac	tgtgcgctta	cctcctttgc	catgcttgat	tagcaccggg
gggttgctga	20340			
aaccaccat	ttgtagcgcc	acatcttctc	tttcttcctc	gctgtccacg
attacctctg	20400			
gtgatggcgg	gcgctcgggc	ttgggagaag	ggcgcttctt	tttcttcttg
ggcgcaatgg	20460			
ccaaatccgc	cgccgaggtc	gatggccgcg	ggctgggtgt	gcgcggcacc
agcgctctt	20520			
gtgatgagtc	ttcctcgtcc	tcggactcga	tacgccgcct	catccgcttt
tttgggggcg	20580			
cccggggagg	cgccggcgac	ggggacgggg	acgacacgtc	ctccatgggt
gggggacgtc	20640			
gcgccgcacc	gcgtccgcgc	tcgggggtgg	tttcgcgctg	ctcctcttcc
cgactggcca	20700			
tttccttctc	ctataggcag	aaaaagatca	tggagtcagt	cgagaagaag
gacagcctaa	20760			
ccgccccctc	tgagttcgcc	accaccgcct	ccaccgatgc	cgccaacgcg
cctaccacct	20820			
tccccgtcga	ggcaccctcg	cttgaggagg	aggaagtgat	tatcgagcag
gaccaggtt	20880			
ttgtaagcga	agacgacgag	gaccgctcag	taccaacaga	ggataaaaag
caagaccagg	20940			

P2762US3 18JUN06YSC ST25.txt

acaacgcaga ggcaaacgag gaacaagtcg ggcgggggga cgaaaggcat
ggcgactacc 21000

tagatgtggg agacgacgtg ctgttgaagc atctgcagcg ccagtgcgcc
attatctgcg 21060

acgcgttgca agagcgcagc gatgtgcccc tcgccatagc ggatgtcagc
cttgccctacg 21120

aacgccacct attctcaccg cgcgtacccc ccaaacgcca agaaaacggc
acatgcgagc 21180

ccaacccgcg cctcaacttc taccctgtat ttgccgtgcc agaggtgctt
gccacctatc 21240

acatcttttt ccaaaactgc aagatacccc tatcctgccg tgccaaccgc
agccgagcgg 21300

acaagcagct ggccttgccg cagggcgctg tcatacctga tatcgccctg
ctcaacgaag 21360

tgccaaaaat ctttgagggt cttggacgcg acgagaagcg cgcggcaaac
gctctgcaac 21420

aggaaaacag cgaaaatgaa agtcactctg gagtgttggt ggaactcgag
ggtgacaacg 21480

cgcgcctagc cgtactaaaa cgcagcatcg aggtcaccca ctttgcctac
ccggcactta 21540

acctaccccc caaggctcatg agcacagtca tgagtgagct gatcgtgcgc
cgtgcgcagc 21600

ccctggagag ggatgcaaat ttgcaagaac aaacagagga gggcctaccc
gcagttggcg 21660

acgagcagct agcgcgctgg cttcaaacgc gcgagcctgc cgacttggag
gagcgacgca 21720

aactaatgat ggccgcagtg ctcgttaccg tggagcttga gtgcatgcag

P2762US3 18JUN06YSC ST25.txt

cggttctttg 21780

ctgacccgga gatgcagcgc aagctagagg aaacattgca ctacaccttt
cgacagggct 21840

acgtacgcca ggcctgcaag atctccaacg tggagctctg caacctggtc
tcctaccttg 21900

gaattttgca cgaaaaccgc cttgggcaaa acgtgcttca ttccacgctc
aagggcgagg 21960

cgcgccgcga ctacgtccgc gactgcgttt acttatttct atgctacacc
tggcagacgg 22020

ccatgggCGT ttggcagcag tgcttggagg agtgcaacct caaggagctg
cagaaactgc 22080

taaagcaaaa cttgaaggac ctatggacgg ccttcaacga gcgctccgtg
gccgCgCacc 22140

tggcggacat catTTTCCCC gaacgcctgc ttaaaaccct gcaacagggT
ctgCcaGact 22200

tcaccagtca aagcatgttg cagaacttta ggaactttat cctagagcgc
tcaggaatct 22260

tgcccgccac ctgctgtgca cttcctagcg actttgtgcc cattaagtac
cgCgaatgcc 22320

ctccgCCgct ttggggccac tgctaccttc tgcagctagc caactacctt
gcctaccact 22380

ctgacataat ggaagacgtg agcggtgacg gtctactgga gtgtcactgt
cgctgcaacc 22440

tatgcacccc gcaccgctcc ctggtttgca attcgCagct gcttaacgaa
agtcaaatta 22500

tcggtacctt tgagctgcag ggtccctcgc ctgacgaaaa gtccgCggct
ccggggttga 22560

P2762US3 18JUN06YSC ST25.txt

aactcactcc ggggctgtgg acgtcggcctt accttcgcaa atttgtacct
gaggactacc 22620

acgcccacga gattaggttc tacgaagacc aatccccgcc gccaaatgcg
gagcttaccg 22680

cctgcgtcat taccagggc cacattcttg gccaatgca agccatcaac
aaagcccgcc 22740

aagagtttct gctacgaaag ggacggggggg ttactttgga cccccagtcc
ggcgaggagc 22800

tcaacccaat cccccgcgcg ccgcagccct atcagcagca gccgcggggc
cttgcttccc 22860

aggatggcac caaaaaagaa gctgcagctg ccgccgccac ccacggacga
ggaggaatac 22920

tgggacagtc aggcagagga ggttttggac gaggaggagg aggacatgat
ggaagactgg 22980

gagagcctag acgaggaagc ttccgaggtc gaagaggtgt cagacgaaac
accgtcaccc 23040

tcggtcgcct tcccctcgcc ggcgccccag aaatcggcaa ccggttccag
catggctaca 23100

acctccgctc ctcaggcgcc gccggcactg cccgttcgcc gacccaaccg
tagatgggac 23160

accactggaa ccagggcccg taagtccaag cagccgccgc cgttagccca
agagcaacaa 23220

cagcgccaag gctaccgctc atggcgcggg cacaagaacg ccatagttgc
ttgcttgcaa 23280

gactgtgggg gcaacatctc cttcgccccg cgctttcttc tctaccatca
cggcgtggcc 23340

ttccccgta acatcctgca ttactaccgt catctctaca gcccatactg
caccggcggc 23400

P2762US3 18JUN06YSC ST25.txt

agcggcagcg gcagcaacag cagcggccac acagaagcaa aggcgaccgg
 atagcaagac 23460

tctgacaaag cccaagaaat ccacagcggc ggcagcagca ggaggaggag
 cgctgcgtct 23520

ggcgcccaac gaacccgtat cgacccgcga gcttagaaac aggatttttc
 ccactctgta 23580

tgctatatatt caacagagca ggggccaaga acaagagctg aaaataaaaa
 acaggtctct 23640

gcatccctc acccgagct gcctgtatca caaaagcgaa gatcagcttc
 ggcgcacgct 23700

ggaagacgcg gaggtctct tcagtaaata ctgcgcgctg actcttaagg
 actagtttcg 23760

cgccctttct caaatttaag cgcgaaaact acgtcatctc cagcggccac
 acccggcgcc 23820

agcacctgtc gtcagcgcca ttatgagcaa ggaaattccc acgccctaca
 tgtggagtta 23880

ccagccacaa atgggacttg cggctggagc tgcccaagac tactcaaccc
 gaataaacta 23940

catgagcgcg ggaccccaaca tgatatcccg ggtcaacgga atccgcgccc
 accgaaaccg 24000

aattctcttg gaacaggcgg ctattaccac cacacctcgt aataacctta
 atccccgtag 24060

ttggcccgct gccctgggtgt accaggaaag tcccgcctccc accactgtgg
 tacttcccag 24120

agacgcccag gccgaagttc agatgactaa ctcaggggcg cagcttgcgg
 gcggctttcg 24180

tcacagggtg cggtcgcccg ggcagggtat aactcacctg acaatcagag

P2762US3 18JUN06YSC ST25.txt

ggcgaggtat 24240

tcagctcaac gacgagtcgg tgagctcctc gcttggtctc cgtccggacg
ggacatttca 24300

gatcggcggc gccggccgct cttcattcac gcctcgtcag gcaatcctaa
ctctgcagac 24360

ctcgtcctct gagccgcgct ctggaggcat tggaactctg caatttattg
aggagtttgt 24420

gccatcggtc tactttaacc ctttctcggg acctcccggc cactatccgg
atcaatttat 24480

tcctaacttt gacgcggtaa aggactcggc ggacggctac gactgaatgt
taagtggaga 24540

ggcagagcaa ctgcgcctga aacacctggt ccactgtcgc cgccacaagt
gctttgcccg 24600

cgactccggt gagttttgct actttgaatt gcccaggat catatcgagg
gcccggcgca 24660

cggcgtccgg cttaccgccc agggagagct tgcccgtagc ctgattcggg
agtttaccca 24720

gcgccccctg ctagttgagc gggacagggg accctgtggt ctcactgtga
tttgcaactg 24780

tcctaacctt ggattacatc aagatctttg ttgccatctc tgtgctgagt
ataataaata 24840

cagaaattaa aatatactgg ggctcctatc gccatcctgt aaacgccacc
gtcttcaccc 24900

gccaagcaa accaaggcga accttacctg gtacttttaa catctctccc
tctgtgattt 24960

acaacagttt caaccagac ggagtgagtc tacgagagaa cctctccgag
ctcagctact 25020

P2762US3 18JUN06YSC ST25.txt

ccatcagaaa aaacaccacc ctccttacct gccgggaacg tacgagtgcg
tcaccggccg 25080

ctgcaccaca cctaccgcct gaccgtaaac cagacttttt ccggacagac
ctcaataact 25140

ctgtttacca gaacaggagg tgagcttaga aaacccttag ggtattaggc
caaaggcgca 25200

gctactgtgg ggtttatgaa caattcaagc aactctacgg gctatttcta
ttcaggtttc 25260

tctaatacggg gttgggggta ttctctgtct tgtgattctc tttatttcta
tactaacgct 25320

tctctgccta aggctcgccg cctgctgtgt gcacatttgc atttattgtc
agctttttta 25380

acgctggggg cgccacccaa gatgattagg tacataatcc taggtttact
cacccttgcg 25440

tcagcccacg gtaccaccca aaagggtggat ttttaaggagc cagcctgtaa
tgttacattc 25500

gcagctgaag ctaatgagtg caccactctt ataaaatgca ccacagaaca
tgaaaagctg 25560

cttattcgcc acaaaaacaa aattggcaag tatgctgttt atgctatttg
gcagccagg 25620

gacactacag agtataatgt tacagttttc cagggtaaaa gtcataaaac
ttttatgtat 25680

acttttccat tttatgaaat gtgcgacatt accatgtaca tgagcaaaca
gtataagttg 25740

tggcccccac aaaattgtgt ggaaaacact ggcactttct gctgcactgc
tatgctaatt 25800

acagtgctcg ctttggtctg taccctactc tatattaaat acaaaaagcag
acgcagcttt 25860

P2762US3 18JUN06YSC ST25.txt

```

attgaggaaa agaaaatgcc ttaatttact aagttacaaa gctaattgtca
ccactaactg 25920

ctttactcgc tgcttgcaaa acaaattcaa aaagtttagca ttataattag
aataggattt 25980

aaaccccccg gtcatttcct gctcaatacc attcccctga acaattgact
ctatgtggga 26040

tatgctccag cgctacaacc ttgaagtcag gcttcctgga tgtcagcatc
tgactttggc 26100

cagcacctgt cccgcggatt tgttccagtc caactacagc gacccaccct
aacagagatg 26160

accaacacaa ccaacgcggc cgccgctacc ggacttacat ctaccacaaa
tacaccccaa 26220

gtttctgcct ttgtcaataa ctgggataac ttgggcatgt ggtggttctc
catagcgctt 26280

atgtttgtat gccttattat tatgtggctc atctgctgcc taaagcgcaa
acgcgcccga 26340

ccacccatct atagtcccat cattgtgcta cacccaaaca atgatggaat
ccatagattg 26400

gacggactga aacacatggt cttttctctt acagtatgat taaatgagac
atgattcctc 26460

gagtttttat attactgacc cttgttgcg cttttttgtgc gtgctccaca
ttggctgcgg 26520

tttctcacat cgaagtagac tgcattccag ccttcacagt ctatttgctt
tacggatttg 26580

tcaccctcac gctcatctgc agcctcatca ctgtgggtcat cgcctttatc
cagtgcattg 26640

actgggtctg tgtgcgcttt gcatactca gacaccatcc ccagtacagg

```

P2762US3 18JUN06YSC ST25.txt

gacaggacta 26700

tagctgagct tcttagaaat ggacggaatt attacagagc agcgcctgct
agaaagacgc 26760

agggcagcgg ccgagcaaca gcgcatgaat caagagctcc aagacatggt
taacttgcac 26820

cagtgcacaaa ggggtatctt ttgtctggta aagcaggcca aagtcaccta
cgacagtaat 26880

accaccggac accgccttag ctacaagttg ccaaccaagc gtcagaaatt
ggtggtcatg 26940

gtgggagaaa agcccattac cataactcag cactcggtag aaaccgaagg
ctgcattcac 27000

tcaccttgtc aaggacctga ggatctctgc acccttatta agaccctgtg
cggtctcaaa 27060

gatcttattc cttttaacta ataaaaaaaa ataataaagc atcacttact
taaaatcagt 27120

tagcaaattt ctgtccagtt tattcagcag cacctccttg ccctcctccc
agctctggta 27180

ttgcagcttc ctcttggtg caaactttct ccacaatcta aatggaatgt
cagtttcctc 27240

ctgttcctgt ccatccgcac ccactatctt catgttggtg cagatgaagc
gcgcaagacc 27300

gtctgaagat accttcaacc ccgtgtatcc atatgacacg gaaaccggtc
ctccaactgt 27360

gccttttctt actcctccct ttgtatcccc caatggggtt caagagagtc
cccctggggt 27420

actctctttg cgcctatccg aacctctagt tacctccaat ggcattgctg
cgctcaaaat 27480

P2762US3 18JUN06YSC ST25.txt

gggcaacggc ctctctctgg acgaggccgg caaccttacc tcccaaaatg
 taaccactgt 27540

gagccacct ctcaaaaaaa ccaagtcaaa cataaacctg gaaatatctg
 caccctcac 27600

agttacctca gaagccctaa ctgtggctgc cgccgcacct ctaatggctg
 cgggcaacac 27660

actcaccatg caatcacagg ccccgctaac cgtgcacgac tccaaactta
 gcattgccac 27720

ccaaggaccc ctcacagtgt cagaaggaaa gctagccctg caaacatcag
 gccccctcac 27780

caccaccgat agcagtaccc ttactatcac tgcctcacc cctctaacta
 ctgccactgg 27840

tagcttgggc attgacttga aagagcccat ttatacacia aatggaaaac
 taggactaaa 27900

gtacggggct cctttgcatg taacagacga cctaaacact ttgaccgtag
 caactgggtcc 27960

aggtgtgact attaataata cttccttgca aactaaagtt actggagcct
 tgggttttga 28020

ttcacaaggc aatatgcaac ttaatgtagc aggaggacta aggattgatt
 ctcaaaacag 28080

acgccttata cttgatgtta gttatccggt tgatgctcaa aaccaactaa
 atctaagact 28140

aggacagggc cctcttttta taaactcagc ccacaacttg gatattaact
 acaacaaagg 28200

cctttacttg tttaacagctt caaacaattc caaaaagctt gaggttaacc
 taagcactgc 28260

caaggggttg atgtttgacg ctacagccat agccattaat gcaggagatg
 ggcttgaatt 28320

P2762US3 18JUN06YSC ST25.txt

tggttcacct aatgcaccaa acacaaatcc cctcaaaaca aaaattggcc
atggcctaga 28380

atttgattca aacaaggcta tggttcctaa actaggaact ggccttagtt
ttgacagcac 28440

aggtgccatt acagtaggaa acaaaaataa tgataagcta actttgtgga
ccacaccagc 28500

tccatctcct aactgtagac taaatgcaga gaaagatgct aaactcactt
tggctttaac 28560

aaaatgtggc agtcaaatac ttgctacagt ttcagttttg gctgttaaag
gcagtttggc 28620

tccaatatct ggaacagttc aaagtgcctca tcttattata agatttgacg
aaaatggagt 28680

gctactaaac aattccttcc tggacccaga atattggaac tttagaaatg
gagatcttac 28740

tgaaggcaca gcctatacaa acgctgttgg atttatgcct aacctatcag
cttatccaaa 28800

atctcacggt aaaactgcc aagtaacat tgtcagtcaa gtttacttaa
acggagacaa 28860

aactaaacct gtaacactaa ccattacact aaacggtaca caggaaacag
gagacacaac 28920

tccaagtgca tactctatgt cattttcatg ggactggtct ggccacaact
acattaatga 28980

aatatttgcc acatcctctt acactttttc atacattgcc caagaataaa
gaatcgtttg 29040

tgttatgttt caacgtgttt atttttcaat tgcagaaaat ttcaagtcac
ttttcattca 29100

gtagtatagc cccaccacca catagcttat acagatcacc gtaccttaat

P2762US3 18JUN06YSC ST25.txt

caaactcaca 29160

gaaccctagt attcaacctg ccacctccct cccaacacac agagtacaca
gtcctttctc 29220

cccggctggc cttaaaaagc atcatatcat gggtaacaga catattctta
ggtgttatat 29280

tccacacggt ttctgtcga gccaaacgct catcagtgat attaataaac
tccccgggca 29340

gctcacttaa gttcatgtcg ctgtccagct gctgagccac aggctgctgt
ccaacttgcg 29400

gttgcttaac gggcggcgaa ggagaagtcc acgcctacat gggggtagag
tcataatcgt 29460

gcatcaggat agggcggtgg tgctgcagca gcgcgcgaat aaactgctgc
cgccgccgct 29520

ccgtcctgca ggaatacaac atggcagtggt tctcctcagc gatgattcgc
accgcccgca 29580

gcataaggcg ctttgtcctc cgggcacagc agcgcaccct gatctcactt
aatcagcac 29640

agtaactgca gcacagcacc acaatattgt tcaaaatccc acagtgcaag
gcgctgtatc 29700

caaagctcat ggcggggacc acagaacca cgtggccatc ataccacaag
cgcaggtaga 29760

ttaagtggcg acccctcata aacacgctgg acataaacat tacctctttt
ggcatgttgt 29820

aattcaccac ctcccgggtac catataaacc tctgattaaa catggcgcca
tccaccacca 29880

tcctaaacca gctggccaaa acctgcccgc cggctataca ctgcagggaa
ccgggactgg 29940

P2762US3 18JUN06YSC ST25.txt

aacaatgaca	gtggagagcc	caggactcgt	aaccatggat	catcatgctc
gtcatgat	30000			
caatgttggc	acaacacagg	cacacgtgca	tacacttcct	caggattaca
agctcctccc	30060			
gcgttagaac	catatcccag	ggaacaaccc	attcctgaat	cagcgtaa
cccacactgc	30120			
agggaagacc	tcgcacgtaa	ctcacgttgt	gcattgtcaa	agtgttacat
tcgggcagca	30180			
gcggatgac	ctccagtatg	gtagcgcg	tttctgtctc	aaaaggaggt
agacgatccc	30240			
tactgtacgg	agtgcgccga	gacaaccgag	atcgtgttgg	tcgtagtgct
atgccaaatg	30300			
gaacgccgga	cgtagtcata	tttcctgaag	caaaaccagg	tgcgggcgtg
acaaacagat	30360			
ctgcgtctcc	ggctctgccg	cttagatcgc	tctgtgtagt	agttgtagta
tatccactct	30420			
ctcaaagcat	ccaggcgccc	cctggcttcg	ggttctatgt	aaactccttc
atgcgccgct	30480			
gccctgataa	catccaccac	cgcagaataa	gccacacca	gccaacctac
acattcgttc	30540			
tgcgagtcac	acacgggagg	agcgggaaga	gctggaagaa	ccatgttttt
ttttttattc	30600			
caaaagatta	tccaaaacct	caaatgaag	atctattaag	tgaacgcgct
cccctccggt	30660			
ggcgtggtca	aactctacag	ccaaagaaca	gataatggca	tttgtaagat
gttgacaaat	30720			
ggcttcctaaa	aggcaaacgg	ccctcacgtc	caagtggacg	taaaggctaa
acccttcagg	30780			

P2762US3 18JUN06YSC ST25.txt

gtgaatctcc tctataaaca ttccagcacc ttcaaccatg cccaaataat
tctcatctcg 30840

ccaccttctc aatatatctc taagcaaadc ccgaatatta agtccggcca
ttgtaaaaat 30900

ctgctccaga gcgccctcca ccttcagcct caagcagcga atcatgattg
caaaaattca 30960

ggttcctcac agacctgtat aagattcaaa agcgggaacat taacaaaaat
accgcgatcc 31020

cgtaggctcc ttgcgagggc cagctgaaca taatcgtgca ggtctgcacg
gaccagcgcg 31080

gccacttccc cgccaggaac cttgacaaaa gaaccacacac tgattatgac
acgcatactc 31140

ggagctatgc taaccagcgt agccccgatg taagctttgt tgcattggcg
gcgatataaa 31200

atgcaagggtg ctgctcaaaa aatcaggcaa agcctcgcgc aaaaaagaaa
gcacatcgta 31260

gtcatgctca tgcagataaa ggcaggtaag ctccggaacc accacagaaa
aagacaccat 31320

ttttctctca aacatgtctg cgggtttctg cataaacaca aaataaaata
acaaaaaac 31380

atttaaacad tagaagcctg tcttacaaca ggaaaaacaa cccttataag
cataagacgg 31440

actacggcca tgccggcggtg accgtaaaaa aactgggtcac cgtgattaaa
aagcaccacc 31500

gacagctcct cgggtcatgtc cggagtcata atgtaagact cggtaaacac
atcaggttga 31560

ttcatcggtc agtgctaaaa agcgaccgaa atagcccggg ggaatacata

P2762US3 18JUN06YSC ST25.txt

cccgagcg 31620

tagagacaac attacagccc ccataggagg tataacaaaa ttaataggag
agaaaaacac 31680

ataaacacct gaaaaaccct cctgcctagg caaaatagca ccctcccgt
ccagaacaac 31740

atacagcgct tcacagcggc agcctaacag tcagccttac cagtaaaaaa
gaaaacctat 31800

taaaaaaaca ccactcgaca cggcaccagc tcaatcagtc acagtgtaaa
aaagggcaa 31860

gtgcagagcg agtatatata ggactaaaaa atgacgtaac ggtaaagtc
cacaaaaaac 31920

acccagaaaa ccgcacgcga acctacgccc agaaacgaaa gccaaaaaac
ccacaacttc 31980

ctcaaatacgt cacttccggt ttcccacggt acgtaacttc ccattttaag
aaaactacaa 32040

ttccaacac atacaagtta ctccgcccta aaacctacgt caccgcccc
gttcccacgc 32100

ccgcgccac gtcacaaact ccacccccctc attatcatat tggcttcaat
ccaaaataag 32160

gtatat 32166